

SEQUENCE LISTING

<110> JAPAN SCIENCE AND TECHNOLOGY CORPORATION

<120> Regucalcin gene-transferred non-human animals

<130> YG2002-18PCT

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<150> JP P2001-287698

<151> 2001-9-20

<150> JP P2002-177666

<151> 2002-6-18

<160> 4

<170> PatentIn Ver. 2.1

<210> 1

<211> 900

<212> DNA

<213> Rattus norvegicus

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<221> CDS

<222> (1)..(900)

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15

ggg gag tcc cct gtg tgg gag gag gca tca aag tgt ctg ctg ttt gta 96

Gly	Glu	Ser	Pro	Val	Trp	Glu	Glu	Ala	Ser	Lys	Cys	Leu	Leu	Phe	Val	
			20					25					30			
gac atc cct tca aag act gtc tgc cga tgg gat tcg atc agc aat cga															144	
Asp Ile Pro Ser Lys Thr Val Cys Arg Trp Asp Ser Ile Ser Asn Arg																
			35				40					45				
gtg cag cga gtt ggt gta gat gcc cca gtc agt tca gtg gca ctt cga															192	
Val Gln Arg Val Gly Val Asp Ala Pro Val Ser Ser Val Ala Leu Arg																
			50				55					60				
cag tca gga ggc tat gtt gcc acc att gga acc aag ttc tgt gct ttg															240	
Gln Ser Gly Gly Tyr Val Ala Thr Ile Gly Thr Lys Phe Cys Ala Leu																
			65				70					75			80	
aac tgg gaa gat caa tca gta ttt atc cta gcc atg gtg gat gaa gat															288	
Asn Trp Glu Asp Gln Ser Val Phe Ile Leu Ala Met Val Asp Glu Asp																
			85				90					95				
aag aaa aac aat cga ttc aat gat ggg aag gtg gat cct gct ggg aga															336	
Lys Lys Asn Asn Arg Phe Asn Asp Gly Lys Val Asp Pro Ala Gly Arg																
			100				105					110				
tac ttt gct ggt acc atg gct gag gaa acc gcc cca gct gtt ctg gag															384	
Tyr Phe Ala Gly Thr Met Ala Glu Glu Thr Ala Pro Ala Val Leu Glu																
			115				120					125				
cgg cac caa ggg tcc ttg tac tcc ctt tti cct gat cac agt gtg aag															432	
Arg His Gln Gly Ser Leu Tyr Ser Leu Phe Pro Asp His Ser Val Lys																
			130				135					140				
aaa tac ttt aac caa gtg gat atc tcc aat ggt ttg gat tgg tcc ctg															480	
Lys Tyr Phe Asn Gln Val Asp Ile Ser Asn Gly Leu Asp Trp Ser Leu																
			145				150					155			160	
gac cat aaa atc ttc tac tac att gac agc ctg tcc tac act gtg gat															528	

Asp His Lys Ile Phe Tyr Tyr Ile Asp Ser Leu Ser Tyr Thr Val Asp			
165	170	175	
gcc ttt gac tat gac ctg cca aca gga cag att tcc aac cgc agg act 576			
Ala Phe Asp Tyr Asp Leu Pro Thr Gly Gln Ile Ser Asn Arg Arg Thr			
180	185	190	
gtt tac aag atg gaa aaa gat gaa caa atc cca gat gga atg tgc att 624			
Val Tyr Lys Met Glu Lys Asp Glu Gln Ile Pro Asp Gly Met Cys Ile			
195	200	205	
gat gtt gag ggg aag ctt tgg gtg gcc tgt tac aat gga gga aga gta 672			
Asp Val Glu Gly Lys Leu Trp Val Ala Cys Tyr Asn Gly Gly Arg Val			
210	215	220	
att cgc cta gat cct gag aca ggg aaa aga ctg caa act gtg aag ttg 720			
Ile Arg Leu Asp Pro Glu Thr Gly Lys Arg Leu Gln Thr Val Lys Leu			
225	230	235	240
cct gtt gat aaa aca act tca tgc tgc ttt gga ggg aag gat tac tct 768			
Pro Val Asp Lys Thr Thr Ser Cys Cys Phe Gly Gly Lys Asp Tyr Ser			
245	250	255	
gaa atg tac gtg aca tgt gcc agg gat ggg atg agc gcc gaa ggt ctt 816			
Glu Met Tyr Val Thr Cys Ala Arg Asp Gly Met Ser Ala Glu Gly Leu			
260	265	270	
ttg agg cag cct gat gct ggt aac att ttc aag ata aca ggt ctt ggg 864			
Leu Arg Gln Pro Asp Ala Gly Asn Ile Phe Lys Ile Thr Gly Leu Gly			
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<212> PRT
<213> Rattus norvegicus

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Asp Ile Pro Ser Lys Thr Val Cys Arg Trp Asp Ser Ile Ser Asn Arg
35 40 45
Val Gln Arg Val Gly Val Asp Ala Pro Val Ser Ser Val Ala Leu Arg
50 55 60
Gln Ser Gly Gly Tyr Val Ala Thr Ile Gly Thr Lys Phe Cys Ala Leu
65 70 75 80
Asn Trp Glu Asp Gln Ser Val Phe Ile Leu Ala Met Val Asp Glu Asp
85 90 95
Lys Lys Asn Asn Arg Phe Asn Asp Gly Lys Val Asp Pro Ala Gly Arg
100 105 110
Tyr Phe Ala Gly Thr Met Ala Glu Glu Thr Ala Pro Ala Val Leu Glu
115 120 125
Arg His Gln Gly Ser Leu Tyr Ser Leu Phe Pro Asp His Ser Val Lys
130 135 140
Lys Tyr Phe Asn Gln Val Asp Ile Ser Asn Gly Leu Asp Trp Ser Leu
145 150 155 160
Asp His Lys Ile Phe Tyr Tyr Ile Asp Ser Leu Ser Tyr Thr Val Asp
165 170 175
Ala Phe Asp Tyr Asp Leu Pro Thr Gly Gln Ile Ser Asn Arg Arg Thr
180 185 190
Val Tyr Lys Met Glu Lys Asp Glu Gln Ile Pro Asp Gly Met Cys Ile
195 200 205
Asp Val Glu Gly Lys Leu Trp Val Ala Cys Tyr Asn Gly Gly Arg Val
210 215 220
Ile Arg Leu Asp Pro Glu Thr Gly Lys Arg Leu Gln Thr Val Lys Leu
225 230 235 240

Pro Val Asp Lys Thr Thr Ser Cys Cys Phe Gly Gly Lys Asp Tyr Ser
245 250 255
Glu Met Tyr Val Thr Cys Ala Arg Asp Gly Met Ser Ala Glu Gly Leu
260 265 270
Leu Arg Gln Pro Asp Ala Gly Asn Ile Phe Lys Ile Thr Gly Leu Gly
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Val Lys Gly Ile Ala Pro Tyr Ser Tyr Ala Gly
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<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Primer huRC-1

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<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Primer huRC-2

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23